

FIELD TRIP REPORT

TO: Barna Juhasz
THROUGH Ed Kashuba
FROM: David Jones
DATE: June 17, 2002

TRIP DATES: June 6, 2002
PLACE: Washington, D.C.

PURPOSE: Weigh-In-Motion Site Visit in the District of Columbia

PARTICIPANTS: List attached.

ACCOMPLISHMENTS OR RESULTS:

Since the late 80's, WIM truck weight data has been used in cost allocation studies, highway statistics publications, congressional reports, pavement design analysis for loading, guidelines for truck weights, accident evaluation and other data analyses. Most of the data used for those purposes were collected from Rural Interstate Highway WIM systems. Presently, there is an increasing interest in gathering Urban WIM traffic data for monitoring truck activity. The District of Columbia Division of Transportation's Traffic Services Administration has recently installed three WIM systems in the District. The three WIM system installed in the city are each using different sensor technologies (Load Cell, Bending Plate, and Piezo Quartz).

LOAD CELL (located: New York Avenue NE)



BENDING PLATE (located: I 295 SE)



QUARTZ PIEZO RETROFIT (located: Pennsylvania Avenue SE *Bending Plate none operational*)



The three WIM systems will be used to monitor truck traffic activity and load characteristics to aid in pavement design, enforcement of size and weight monitoring and certification. This will be a unique situation for both the FHWA, as well as the District, because this is the first installation of WIM technology in DC and the first time the FHWA will receive DC WIM data for the Truck Weight Study.

The DC Traffic Services Administration plans to work closely with surrounding State agencies to coordinate the use of these systems to provide effective weight enforcement throughout the metropolitan area.

NEW YORK AVENUE WIM SITE AT MARYLAND BORDER



The Load Cell technology installation is able to interface with video cameras allowing it to view overloaded vehicles entering city. Due to the increased security in Washington, the WIM systems will also be used by the local DC Police Department's Security Command Center system for monitoring vehicles.

Load Cell WIM Location able to Interface with Video



RECOMMENDATIONS

We will continue to provide guidance and training to make the use of WIM data more effective by assisting the District to successfully utilize these technologies as part of their daily traffic related activity. One way to help during this processes is to use Vehicle Travel Information System (VTRIS) software as part of their daily WIM process. This will aid the District in its analysis of the data, as well as providing the FHWA with the best quality data.

WIM Site Visit Demonstration					
6-Jun-02					
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